

HYPERGLYCEMIA INDUCED EPIGENETIC CHANGES AND CELL MIGRATION

B. Zhalmagambetov*, A. Orakov, C. Gilman

School of Science and Technology, Nazarbayev University, Astana, Kazakhstan; *bzhalmagambetov@nu.edu.kz

Cancer is responsible for millions of deaths annually¹. Especially, cancer in overweight people becoming to pose a threat as some cancers are becoming resistant to chemotherapy^{2,3}. In addition, most overweight people have a diabetes or hyperglycemia. Although it was shown that hyperglycemia can trigger epigenetic changes in many cancer cells, there is no data how hyperglycemia would affects migration through epigenetic alterations. We aim to study abovementioned by assessing the cell migration under hyperglycemic conditions on glioblastoma cells and the specific epigenetic changes associated with hyperglycemia. We will use immunofluorescence, bisulfate conversion sequencing to assess epigenetic status and do scratch assay to study cell migration. Our results can shed light on the effect of epigenetic changes to cell migration under hyperglycemic conditions.

References.

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